

COC# 75

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CHAIN OF CUSTODY REPORT

Work Order #: M106033

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------|--|----------------------------|------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------|------------|----------|-----------|
| CLIENT: BRISTOL | | | | INVOICE TO: BRISTOL | | | | | | | | | | TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">10</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;"><1</div> </div> STD. Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;"><1</div> </div> STD. OTHER Please Specify | | | | | | | | | |
| REPORT TO: ANNE KRANAWETTER | | | | P.O. NUMBER: 21090 | | | | | | | | | | | | | | | | | | | |
| ADDRESS: AMCHITKA ISLAND, ALASKA | | | | | | | | | | | | | | | | | | | | | | | |
| PHONE: 907-770-0974 FAX: 770-0975 | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NAME: AMCHITKA | | | | REQUESTED ANALYSES | | | | | | | | | | | | | | | | | | | |
| PROJECT NUMBER: 21090 | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLED BY: ARK/cem | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT SAMPLE IDENTIFICATION | | SAMPLING DATE/TIME | | DRO | BTEX | Naphthalene | | | | | | | | | | | | | | MATRIX (W, S, O) | # OF CONT. | COMMENTS | NCA WO ID |
| 1. 01Am B205SL | | 6/11/01 1740 | | ✓ | ✓ | | | | | | | | | | | | | | | S | 2 | | |
| 2. 01Am B206SL | | 6/11/01 1735 | | ✓ | ✓ | | | | | | | | | | | | | | | S | 2 | | |
| 3. 01Am B207SL | | 6/11/01 1730 | | ✓ | ✓ | | | | | | | | | | | | | | | S | 2 | | |
| 4. 01Am B208SL | | 6/11/01 1725 | | ✓ | ✓ | | | | | | | | | | | | | | | S | 2 | | |
| 5. | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | | | | | | | | | | | | | | | | | | | | | | | |
| 12. | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | | | | | | | | | | | | | | | | | | | | | | | |
| 15. | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|--------------------------------------|--|---------------|--|----------------------------------|--|---------------|--|
| RELINQUISHED BY: <i>Chris Miller</i> | | DATE: 6/12/01 | | RECEIVED BY: <i>Craig Brader</i> | | DATE: 6/12/01 | |
| PRINT NAME: <i>Chris Miller</i> | | TIME: 1657 | | PRINT NAME: <i>Craig Brader</i> | | TIME: 1657 | |
| RELINQUISHED BY: | | DATE: | | RECEIVED BY: | | DATE: | |
| PRINT NAME: | | TIME: | | PRINT NAME: | | TIME: | |

| | | | |
|----------------------|--|------------------|--|
| FIRM: BRISTOL | | FIRM: NCA | |
|----------------------|--|------------------|--|

ADDITIONAL REMARKS:
 COC REV 3/99

TEMP: **7.8°C**

PAGE 1 OF 1



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6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/12/01 16:57. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106033



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| 01AMB205SL | M106033-01 | Soil | 06/12/01 17:40 | 06/12/01 16:57 |
| 01AMB206SL | M106033-02 | Soil | 06/12/01 17:35 | 06/12/01 16:57 |
| 01AMB207SL | M106033-03 | Soil | 06/12/01 17:30 | 06/12/01 16:57 |
| 01AMB208SL | M106033-04 | Soil | 06/12/01 17:25 | 06/12/01 16:57 |

COC # 75

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

1 of 7



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|-------------------------------------|--------|-----------------|-----------|----------|--------------------------------------|----------|----------|---------|-------|
| 01AMB205SL (M106033-01) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| Diesel Range Organics | ND | 150 | mg/kg dry | 1 | AK 102 | 06/12/01 | 06/13/01 | 0106039 | |
| Surr: 1-Chlorooctadecane | 85.9 % | 75-125 | | | | | | | |
| Surr: Triacotane | 86.3 % | 75-125 | | | | | | | |
| 01AMB206SL (M106033-02) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| Diesel Range Organics | ND | 150 | mg/kg dry | 1 | AK 102 | 06/12/01 | 06/13/01 | 0106039 | |
| Surr: 1-Chlorooctadecane | 96.6 % | 75-125 | | | | | | | |
| Surr: Triacotane | 91.9 % | 75-125 | | | | | | | |
| 01AMB207SL (M106033-03) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| Diesel Range Organics | ND | 150 | mg/kg dry | 1 | AK 102 | 06/12/01 | 06/13/01 | 0106039 | |
| Surr: 1-Chlorooctadecane | 88.4 % | 75-125 | | | | | | | |
| Surr: Triacotane | 83.3 % | 75-125 | | | | | | | |
| 01AMB208SL (M106033-04) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| Diesel Range Organics | ND | 150 | mg/kg dry | 1 | AK 102 | 06/12/01 | 06/13/01 | 0106039 | |
| Surr: 1-Chlorooctadecane | 94.8 % | 75-125 | | | | | | | |
| Surr: Triacotane | 88.9 % | 75-125 | | | | | | | |

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

BTEX, MTBE and Naphthalene per EPA Method 8021B
North Creek Analytical - Mobile Lab

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|---------|--------|-----------------|-------|----------|--------|----------|----------|-------|-------|
|---------|--------|-----------------|-------|----------|--------|----------|----------|-------|-------|

01AMB205SL (M106033-01) Soil

Sampled: 06/12/01 Received: 06/12/01

| | | | | | | | | | |
|-----------------|----|--------|-----------|----|-------------|----------|----------|---------|--|
| Benzene | ND | 0.0775 | mg/kg dry | 50 | 1B BTEX/MTI | 06/12/01 | 06/12/01 | 0106041 | |
| Toluene | ND | 0.310 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.310 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.620 | " | " | " | " | " | " | |
| Naphthalene | ND | 3.10 | " | " | " | " | " | " | |

Surr: 4-BFB 91.0 % 50-150

01AMB206SL (M106033-02) Soil

Sampled: 06/12/01 Received: 06/12/01

| | | | | | | | | | |
|-----------------|----|--------|-----------|----|-------------|----------|----------|---------|--|
| Benzene | ND | 0.0540 | mg/kg dry | 50 | 1B BTEX/MTI | 06/12/01 | 06/12/01 | 0106041 | |
| Toluene | ND | 0.216 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.216 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.432 | " | " | " | " | " | " | |
| Naphthalene | ND | 2.16 | " | " | " | " | " | " | |

Surr: 4-BFB 86.5 % 50-150

01AMB207SL (M106033-03) Soil

Sampled: 06/12/01 Received: 06/12/01

| | | | | | | | | | |
|-----------------|----|--------|-----------|----|-------------|----------|----------|---------|--|
| Benzene | ND | 0.0666 | mg/kg dry | 50 | 1B BTEX/MTI | 06/12/01 | 06/12/01 | 0106041 | |
| Toluene | ND | 0.266 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.266 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.533 | " | " | " | " | " | " | |
| Naphthalene | ND | 2.66 | " | " | " | " | " | " | |

Surr: 4-BFB 87.6 % 50-150

01AMB208SL (M106033-04) Soil

Sampled: 06/12/01 Received: 06/12/01

| | | | | | | | | | |
|-----------------|----|--------|-----------|----|-------------|----------|----------|---------|--|
| Benzene | ND | 0.0725 | mg/kg dry | 50 | 1B BTEX/MTI | 06/12/01 | 06/13/01 | 0106041 | |
| Toluene | ND | 0.290 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.290 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.580 | " | " | " | " | " | " | |
| Naphthalene | ND | 2.90 | " | " | " | " | " | " | |

Surr: 4-BFB 87.5 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|-------------------------------------|--------|--------------------|-------|----------|--------------------------------------|----------|----------|---------|-------|
| 01AMB205SL (M106033-01) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| % Solids | 87.1 | 0.0100 % by Weight | | 1 | Gravimetric | 06/12/01 | 06/13/01 | 0106040 | |
| 01AMB206SL (M106033-02) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| % Solids | 79.1 | 0.0100 % by Weight | | 1 | Gravimetric | 06/12/01 | 06/13/01 | 0106040 | |
| 01AMB207SL (M106033-03) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| % Solids | 86.2 | 0.0100 % by Weight | | 1 | Gravimetric | 06/12/01 | 06/13/01 | 0106040 | |
| 01AMB208SL (M106033-04) Soil | | | | | Sampled: 06/12/01 Received: 06/12/01 | | | | |
| % Solids | 86.6 | 0.0100 % by Weight | | 1 | Gravimetric | 06/12/01 | 06/13/01 | 0106040 | |

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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4 of 7



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch 0106039 - 3545 ASE

Blank (0106039-BLK1)

Prepared: 06/12/01 Analyzed: 06/13/01

Diesel Range Organics ND 150 mg/kg wet

Surr: 1-Chlorooctadecane 19.0 " 23.4 81.2 75-125

Surr: Triacotane 19.5 " 23.4 83.3 75-125

LCS (0106039-BS1)

Prepared: 06/12/01 Analyzed: 06/13/01

Diesel Range Organics 1310 150 mg/kg wet 1250 105 75-125

Surr: 1-Chlorooctadecane 21.1 " 23.4 90.2 75-125

Surr: Triacotane 21.5 " 23.4 91.9 75-125

LCS Dup (0106039-BSD1)

Prepared: 06/12/01 Analyzed: 06/13/01

Diesel Range Organics 1360 150 mg/kg wet 1250 109 75-125 3.75 20

Surr: 1-Chlorooctadecane 22.4 " 23.4 95.7 75-125

Surr: Triacotane 21.7 " 23.4 92.7 75-125

Matrix Spike (0106039-MS1)

Source: M106032-05

Prepared: 06/12/01 Analyzed: 06/13/01

Diesel Range Organics 1910 150 mg/kg dry 1650 331 95.7 60-140

Surr: 1-Chlorooctadecane 29.0 " 30.9 93.9 75-125

Surr: Triacotane 28.4 " 30.9 91.9 75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch 0106041 - MeOH Extraction

Blank (0106041-BLK1)

Prepared & Analyzed: 06/12/01

| | | | |
|-----------------|----|--------|-----------|
| Benzene | ND | 0.0250 | mg/kg wet |
| Toluene | ND | 0.100 | " |
| Ethylbenzene | ND | 0.100 | " |
| Xylenes (total) | ND | 0.200 | " |
| Naphthalene | ND | 1.00 | " |

Surr: 4-BFB 2.38 " 2.50 95.2 50-150

LCS (0106041-BS1)

Prepared & Analyzed: 06/12/01

| | | | | | | |
|-----------------|------|--------|-----------|------|------|--------|
| Benzene | 2.12 | 0.0250 | mg/kg wet | 2.50 | 84.8 | 69-138 |
| Toluene | 2.24 | 0.100 | " | 2.50 | 89.6 | 53-151 |
| Ethylbenzene | 2.58 | 0.100 | " | 2.50 | 103 | 61-141 |
| Xylenes (total) | 7.10 | 0.200 | " | 7.50 | 94.7 | 62-141 |
| Naphthalene | 2.83 | 1.00 | " | 2.50 | 113 | 65-135 |

Surr: 4-BFB 2.58 " 2.50 103 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/15/01 10:29

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

7 of 7

Items for Project Manager Review

| LabNumber | Analysis | Analyte | Exception |
|-----------|----------|---------|--|
| | | | Report recreated from: \\sisters\elmnt\Report\M106033 FINAL 06 15 01 1029.mdb Default Report (not modified) |